

REMARKS

Applicants appreciate the Examiner's careful review of the present application, and respectfully request reconsideration in light of the preceding amendments and the following remarks.

By this Amendment, the specification and the drawings are amended. In particular, the specification is amended to replace the square symbols with "mA." This amendment is supported by the Korean applications of which the current application claims priority. The text label for component 133 in Fig. 2 is corrected to more clearly refer to "synchronous mode." Support for this correction can be found in the original specification.

In addition, claims 1-16 are amended to better define the claimed invention. Support for the claim amendments can be found at least in the original specification and drawings. Claims 1-16 are pending for examination in this application.

Objection to Claims

Claims 6, 9, and 11 are objected to for informalities. In response, the term "the modem" in claims 6, 9, and 11 are replaced with "the synchronous modem," and claim 11 is amended to depend from claim 10. Reconsideration in view of the proposed claim amendments and withdrawal of the objection are respectfully requested.

Rejection under 35 U.S.C. § 112

Claims 14 and 15 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite. In response, claim 14 and 15 are amended to better define the claimed subject matter. Reconsideration in view of the proposed claim amendments and withdrawal of the rejection are respectfully requested.

Double Patenting

The indication that claims 1-16 are provisionally rejected for nonstatutory obviousness-type double patenting over copending Application No. 11/628,977 is noted. Applicants respectfully submit that the necessity of filing a terminal disclaimer will be reviewed and

considered if claims remain rejected under this basis after resolving all other objections/rejections.

Rejection under 35 U.S.C. § 103

Claims 1-13 and 16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Park (US 6,704,581) in view of Schmidt (US 7,526,267). Applicants respectfully traverse this rejection for the reasons discussed below.

Claim 1 is amended to recite a mobile communication terminal capable of communicating with an asynchronous mobile communication system and a synchronous mobile communication system. The mobile communication terminal comprises, among other things, “the synchronous modem having operating modes including a power-off mode, an idle mode, and a low power mode consuming less power than the idle mode, the low power mode referring to a time period during which the synchronous modem is powered-on but transmitting and receiving of information by the synchronous modem are suspended” and “wherein the asynchronous modem is configured to . . . output a modem operating signal to the synchronous modem for instructing the synchronous modem to leave the power-off mode and enter the low power mode.” Park and Schmidt fail to disclose or suggest at least these features.

Initially, as it is acknowledged in the Office Action, Park fails to teach the recited “synchronous modem operated in an off-state and according to the modem operating signal outputted from the asynchronous mobile communication system and then transited to a low power mode,” as recited in original claim 1 and similarly recited in amended claim 1. See Page 5, second paragraph of the Office Action. As such, Park does not disclose the above-mentioned features of amended claim 1.

Further, Schmidt fails to cure the deficiencies of Park. More specifically, Schmidt describes a power-saving scheme for operating a Bluetooth transceiver 130 in a device 100. See col. 6, ln. 7-28 of Schmidt. Schmidt merely describes a Bluetooth transceiver 130 having two power modes: a powered-down mode for saving power and an activated/idle mode for detecting a Bluetooth channel. Id at col. 6, ln. 29-49. However, Schmidt appears to be silent regarding the recited “a power-off mode, an idle mode, and a low power mode,” which refers to a power mode “during which the synchronous modem is powered-on but transmitting and receiving of

information by the synchronous modem are suspended.” Also, Schmidt at best describes switching the Bluetooth transceiver 130 from the power-down mode to the activated/idle mode for detecting Bluetooth channels once the user arrives at a destination, which indeed teaches away from the recited “output a modem operating signal to the synchronous modem for instructing the synchronous modem to leave the power-off mode and enter the low power mode,” where the transmitting and receiving of information by the synchronous modem are suspended. Id. at col. 6, ln. 7-28.

Therefore, for at least the reasons advanced above, Park and Schmidt do not render amended claim 1 obvious.

Amended claim 7 recites, among other things, “if the mobile communication terminal is determined to be in the hand-over cell, outputting, by the asynchronous modem, a modem operating signal to the synchronous modem for instructing the synchronous modem to leave the power-off mode and enter the low power mode, the low power mode referring to a time period during which the synchronous modem is powered-on but transmitting and receiving of information by the synchronous modem are suspended.” Similar to the reasons presented for amended claim 1, Park and Schmidt fail to render amended claim 7 obvious as well.

In addition, amended claim 13 recites a method of handing-over a mobile communication terminal between an asynchronous communication system and a synchronous communication system, and the method comprises, among other things, “calculating an initial transmitting power value based on an initial power value received by the asynchronous modem and an average receiving power of the synchronous modem” and “transmitting, by the synchronous modem, a connection requesting signal at the initial transmitting power value to the synchronous communication system.” Park and Schmidt appear to be silent regarding these features, and thus fail to render amended claim 13 obvious.

Claims 2-6, 8-12, and 16 are likewise patentable over Park and Schmidt for at least their dependency upon claims 1, 7, and 13, respectively, as well as additional features they recite. Withdrawal of the rejection of claims 1-13 and 16 is respectfully solicited.

Conclusion

All objections and rejections having been addressed, it is respectfully submitted that the present application should be in condition for allowance and a Notice to that effect is earnestly solicited. Early issuance of a Notice of Allowance is courteously solicited.

The Examiner is invited to telephone the undersigned, Applicants' attorney of record, to facilitate advancement of the present application.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

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